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UTILITY PATENT APPLICATION TRANSMITTAL						520.43241X00						
						MIYAUCHI, AKIHIRO						
						FUNCTIONING SUBSTRATE WITH A GROUP						
TOMOMITTAL						OF COLUMNAR MICRO PILLARS AND ITS						
(Only for new nonprovisional applications under 37 CFR 1.53(b)) Title					-	MANUFAC	CTURING M	ETHOD				
Express M					No.				0			
	ADE	DI ICATION EL EMENTO		1			Stop Patent A		35			
SEE MPEP chapt	PLICATION ELEMENTS concerning utility patent application co	ADD	RESS	<i>,</i> O.	nissioner for i Box 1450	Patents	J. S 59					
·						Alexa	ndria VA 2231	13-1450				
1. Fee Transr	orm (e.g., PTO/SB/17)	7. E	7 60 6	2014 es CD D	in doubles to		36 3/6					
	I and a duplicate for fee processing)	/. L	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)									
A collected delices are all collections					Nucleotide and/or Amino Acid Sequence Submission							
Applicant claims small entity status. See 37 CFR 1.27.					fif applicable, all necessary)							
∇		a. L/ Computer Readable Form (CRF) b. Specification Sequence Listing on:										
		[Total Pages: 66] ment set forth below)			i □ CD-ROM or CD-R (2 copies); or							
	_	the invention			i Li CD-ROM of CD-R (2 copies); of							
•		to Related Applications		ii D paper								
	•	ding Fed sponsored R & D uence listing, a table,		C.	Statements verifying identify of above assista							
	gram listing, a table,		c. Statements verifying identity of above copies									
-Backgrour					ACCOMPANYING APPLICATION PARTS							
-Brief Summary of the Invention -Brief Description of the Drawings (if filed) -Detailed Description					Assignment Papers (cover sheet & documents(s))							
					10. 37 CFR 3.73(b) Statement Power of Attorney							
-Claim(s) -Abstract of the Disclosure					(when there is an assignee)							
4 Drawing(s)	/25 0	C.C. 112)		11.								
4. 🔼 Drawing(s)	(35 0.5	S.C. 113) [Total Sheets: 11]		12.								
Oath or Declaration		[Total Sheets:]		1.0 F	Statement (IDS)/PTO-1449							
a Newly executed (original or copy)					13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503)							
b. L Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed)					(Should be specifically itemized)							
					15. Certified Copy of Priority Document(s)							
 i. LJ DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) 					(if foreign priority is claimed)							
Named in the prior application, see 37 CFR					16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35							
1.63(d)(2) and 1.33(b)					or its equivalent.							
6. Application Data Sheet. See 37 CFR 1.76					17. Other: Claim For Priority; Figs.1-17							
18. If a CONTINUI	NG AP	PLICATION, check appropriate box	c, and supp	ly the re	quisite ir	nformation b	elow and in	a preliminary a	mendment,			
or in an Application	Data	Sheet under 37 CFR 1.76:										
Contin	uation	☐ Divisional ☐ Continu	uation-in-par	t (CIP)	of prior a	application No	.:					
Prior application inform		Examiner: Art Unit:		_								
		/ISIONAL APPS only: The entire disclo t of the disclosure of the accompanyin										
		be relied upon when a portion has bee										
		19. COR	RESPOND	ENCE AD	DRESS	•						
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Customer Number 020457							OR L C	orrespondence ad	Idress below			
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Country Name (Brint/Tune) Al								(703) 312-666	ob			
Name (Print/Type) Signature	Alan	2. Johnavelli		Negraudi		omey/Agent	Date	32,087 October 30, 2	2003			

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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CCC TO A NOMITTAL		Complet if Known								
FEE TRANSMITTAL	7	Applicat	ion Nur	nber						
for FY 2004	F	Filing Date			October 30, 2003					
101 F 1 2004	F				MIYAUCHI, AKIHIRO					
Effective 10/01/2003. Patent fees are subject to annual revision.	Ē	Examine	er Name	9						
Applicant claims small antity status. Soc. 37 CER 1.37	7	Art Unit								
☐ Applicant claims small entity status. See 37 CFR 1.27 TOTAL AMOUNT OF PAYMENT (\$) 942.00	-	Attorney Docket No. 520.43241X00								
METHOD OF PAYMENT (check all that apply) ☐ Check ☑ Credit Card ☐ Money ☐ Other ☐ None	├	FEE CALCULATION (continued)								
Order	3. A									
☑ Deposit Account:										
Deposit Account 01-2135	l am	Large Entity ,Small Entity								
Number			Fee Paid							
Deposit	Fee Code	Fee	Fee Fee Code (\$)		Fee Description					
Account Antonelli, Terry, Stout & Kraus, LLP	1051		2051		Surcharge – late filing fee or oath					
The Director is authorized to: (check all that apply) ☐ Charge fee(s) indicated below ☑ Credit any overpayments	1052	50	2052		Surcharge – late provisional filing fee or					
Charge ree(s) indicated below	4050	400	4050		cover sheet					
☐ Charge any additional fee(s) during the pendency of this application.	1053 1812		1053 1812		Non-English specification					
☐ Charge fee(s) indicated below, except for the filing fee	1804		1804		For filing a request for ex parte reexamination Requesting publication of SIR prior to	<u> </u>				
to the above-identified deposit account.		020	1004		Examination action					
FEE CALCULATION	1805	1,840	1805		Requesting publication of SIR after Examiner action					
BASIC FILING FEE Large Entity Small Entity	1251	110	2251		Extension for reply within first month					
Fee Fee Fee Fee Description Fee Paid	1252	420	2252	210	Extension for reply within second month					
Code (\$) Code (\$) 1001 770 2001 385 Utility filing fee 770	1253	950	2253	475	Extension for reply within third month	ļ				
1002 340 2002 170 Design filing fee	1254	1,480	2254	740	Extension for reply within fourth month					
1003 530 2003 265 Plant filing fee	1255	2,010	2255	1,005	Extension for reply within fifth month					
1004 770 2004 385 Reissue filing fee	1401		2401		Notice of Appeal					
1005 160 2005 80 Provisional filing fee	1402		2402		Filing a brief in support of an appeal					
SUPTOTAL (4)	1403		2403		Request for oral hearing					
SUBTOTAL (1) 770	1451 1452	· ·	1451 2452		Petition to institute a public use proceeding Petition to revive – unavoidable					
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453	- 1	2453		Petition to revive – unavoidable Petition to revive – unintentional					
Fee from Extra Claims below Fee Paid	1501		2501		Utility issue fee (or reissue)					
Total Claims 19 -20** = 0.00 x 18.000 = 0.00	1502	· ·	2502		Design issue fee					
Indep. 5 -3** = 2 x 86.00 = 172.00	1503		2503		Plant issue fee	ļ				
Claims	1406	130	1460	130	Petitions to the Commissioner					
Multiple Dependent 290.00 = 0.00	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)					
Large Entity Small Entity Fee Fee Fee Fee <u>Fee Description</u>	1806	180	1806	180	Submission of Information Disclosure Stmt					
Code (\$) Code (\$)	8021	40	8021	40	Recording each patent assignment per					
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809		property (times number of properties) Filing a submission after final rejection					
1203 290 2203 145 Multiple dependent claim, if not paid					(37 CFR § 1.129(a))					
1204 86 2204 43 ** Reissue independent claims over original patent	1810	770	2810		For each additional invention to be examined (37 CFR § 1.129(b))					
1205 18 2205 9 ** Reissue claims in excess of 20	1801		2801		Request for Continued Examination (RCE)	 				
and over original patent SUBTOTAL (2) \$ 172.00	1802	900	1802		Request for expedited examination of a design application					
30BTOTAL (2) \$172.00	Other	r fee (spe	cifu)							
**or number previously paid, if greater, For Reissues, see above.	1									
	Red	uced by f	Basic Fili	ng Fee I	Paid SUBTOTAL (3) (\$)	0.00				
SUBMITTED BY Complete (if applicable)										

Name (Print/Type)

Alan E. Schlavelli

Registration No. (Attorney/Agent)

32,087

Telephone

703-312-6600

Date

10/30/2003

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